

10IB - CHAPTER 5 REVIEW      NAME: \_\_\_\_\_ EX: 5.1

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For the given table,

| Teacher      | Subject   |
|--------------|-----------|
| Ms. Wright   | English   |
| Mr. Bloomer  | Physics   |
| Mr. Talbot   | Math      |
| Ms. Gregoire | Chemistry |
| Ms. Petula   | Math      |

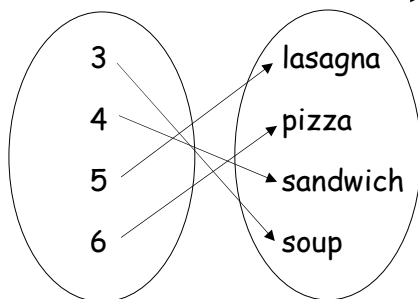
a) describe the relation in words

b) represent the relation as a set of ordered pairs

c) represent the relation as an arrow diagram

Represent this relation given in the arrow diagram below in two different ways.

is the number of lunches brought →



set of ordered pairs

table

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For the relation below:

$\{(-3, -1), (-3, 3), (2, 3), (4, 0), (5, 0)\}$

- a) Is it a function? (circle one):      yes                  no
- b) State the domain: \_\_\_\_\_
- c) State the range: \_\_\_\_\_

For the function  $f(x) = -3x + 5$ , determine

- |           |            |           |
|-----------|------------|-----------|
| a) $f(0)$ | b) $f(-2)$ | c) $f(1)$ |
|-----------|------------|-----------|

For the function  $P(n) = 2n - 7$ , determine  $n$  when

- |               |                |
|---------------|----------------|
| a) $P(n) = 5$ | b) $P(n) = 31$ |
|---------------|----------------|

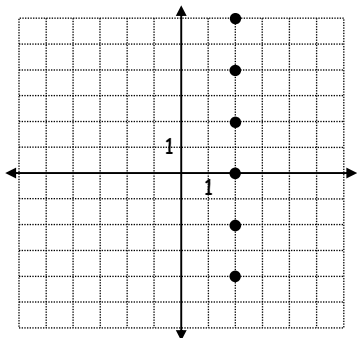


10IB - CHAPTER 5 REVIEW NAME: \_\_\_\_\_ EX: 5.5

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State the domain and range for each of the following:

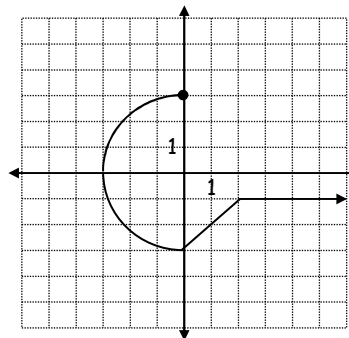
a)



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

b)

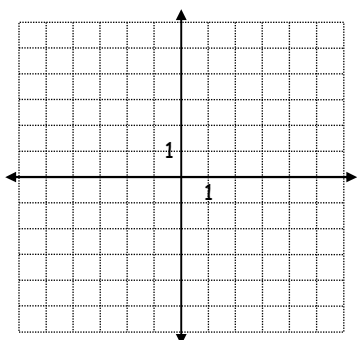


Domain: \_\_\_\_\_

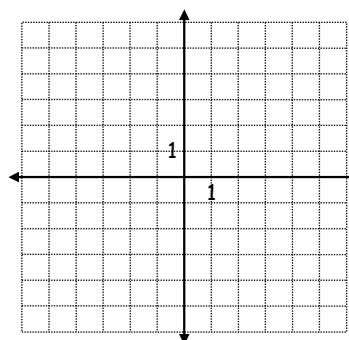
Range: \_\_\_\_\_

Sketch a graph of a function that has each domain and range.

a) domain:  $x \geq -3$   
range:  $y \leq 1$



b) domain:  $-2 \leq x \leq 5$   
range:  $0 \leq y \leq 4$



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Given two tables of values that represent relations. Circle below the table if it is a linear relation or not. Explain your circled choice.

a)

| t  | n  |
|----|----|
| 0  | 1  |
| 20 | 2  |
| 40 | 4  |
| 60 | 8  |
| 80 | 16 |

Circle one:    linear  
                  relation

not linear  
                  relation

Explanation:

b)

| A   | T  |
|-----|----|
| 60  | 3  |
| 120 | 6  |
| 180 | 9  |
| 240 | 12 |
| 300 | 15 |

Circle one:    linear  
                  relation      not linear  
                                  relation

Explanation:

Create a table of values when necessary and then graph each relation.

a)       $y = 2x + 3$

b)       $y = 2x - 3$

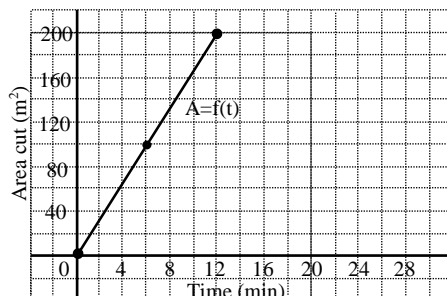
c)       $y = x^2 + 3$

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

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The graph shows the area of grass,  $A$ , in square metres, that Thomas can cut as a function of time, in minutes.



- What is the rate of change? What does it represent?
- How much grass is cut in 12 minutes?
- How many minutes would it take to cut  $150 \text{ m}^2$  of grass?

Sketch a graph of the linear function for positive values of the independent variable.

$$f(x) = 6 - 3x$$